

APPENDIX A

REFERENCES

a. Required Publications.

FAR 52.236-13 Accident Prevention

Code of Federal Regulations

29 CFR 1910 General Industry Standards

29 CFR 1910.120 Hazardous Waste Site Operations and Emergency
Response

29 CFR 1926 Construction Industry Standards

40 CFR 260 Hazardous Waste Management System: General

40 CFR 261 Identification and Listing of Hazardous Waste

40 CFR 262 Standards Applicable to Generators of Hazardous
Waste

40 CFR 263 Standards Applicable to Transporters of Hazardous
Waste

40 CFR 266 Standards for the Management of Specific Hazardous
Wastes and Specific Types of Hazardous Waste
Management Facilities

40 CFR 268 Land Disposal Restrictions

40 CFR 280 Technical Standards and Corrective Action
Requirements for Owners and Operators of
Underground Storage Tanks (UST)

49 CFR Subtitle B Chapter I Research and Special Programs
Administration, Department of Transportation
(Parts 100-199)

EM 1110-1-4006
30 SEP 98

49 CFR Subtitle B Chapter III Federal Highway Administration,
Department of Transportation (Parts 390-399)

Environmental Protection Agency (EPA)

EPA QA/G-5	EPA Guidance for Quality Assurance Project Plans
EPA QA/R-5	EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations
EPA/510/B-97/001	Expedited Site Assessment Tools for Underground Storage Tank Sites
EPA/510/B-97/004	List of Leak Detection Evaluations for UST Systems
EPA/510/R-96/001	How to Effectively Recover Free Product At Leaking Underground Storage Tank Sites
EPA/530/UST-88/001	Cleanup of Releases from Petroleum USTs: Selected Technologies
EPA/530/UST-90/004	Standard Test Procedures for Evaluating Leak Detection Methods: Volumetric Tank Tightness Testing Methods
EPA/530/UST-90/005	Standard Test Procedures for Evaluating Leak Detection Methods: Nonvolumetric Tank Tightness Testing Methods
EPA/530/UST-90/101	Standard Test Procedures for Evaluating Leak Detection Methods: Pipeline Leak Detection Systems
EPA/530/SW-89-031	RCRA Facility Investigation (RFI) Guidance
EPA/540/G-91/009	Management of Investigation-Derived Wastes During Site Inspections
EPA/540/P-87/001	A Compendium of Superfund Field Operations Methods
EPA/540/P-91/005	Compendium of ERT Surface Water and Sediment Sampling Procedures

EPA/540/P-91/007	Compendium of ERT Groundwater Sampling Procedures
EPA/540/P-91/008	Compendium of ERT Waste Sampling Procedures
EPA/540/R-93/519	Guide for Conducting Treatability Studies Under CERCLA: Biodegradation Remedy Selection
EPA/540/R-95/534	Principles and Practices of Bioventing
EPA/540/S-93/503	Groundwater Issue (Feb. 93); Suggested Operating Procedures for Aquifer Pumping Tests
EPA/540/2-91/003	Soil Vapor Extraction Technology Reference Handbook
EPA/542/B-94/013	Remediation Technologies Screening Matrix and Reference Guide
EPA/542/R-92/010	Technologies and Options for UST Corrective Actions: Overview of Current Practice
EPA/600/2-80/018	Samplers and Sampling Procedures for Hazardous Waste Streams
EPA/600/7-84/064	Geophysical Techniques for Sensing Buried Wastes and Waste Migration
EPA/600/2-86/001	Underground Tank Leak Detection Methods: A State-of-the-Art Review
EPA/600/2-90/011	Assessing UST Corrective Action Technologies: Site Assessment and Selection of Unsaturated Zone Treatment Technologies
EPA/600/4-84/076	Characterization of Hazardous Waste Sites-A Methods Manual: Volume II. Available Sampling Methods
EPA/600/8-87/036	Soil Gas Sensing for Detection and Mapping of Volatile Organics
EPA/600/R-96/031	UST Corrective Action Technologies: Engineering Design of Free-Product Recovery Systems

EM 1110-1-4006
30 SEP 98

EPA/600/R-96/041 Assessing UST Corrective Action Technologies:
 Diagnostic Evaluation of In-Situ SVE-Based System
 Performance

EPA/600/R-96/042 In-Situ SVE-Based Systems for Free-Product Recovery
 and Residual Hydrocarbon Removal

EPA/625/9-89/009 Volumetric Tank Testing: An Overview

EPA/625/R-92/007 Use of Airborne, Surface, and Borehole Geophysical
 Techniques at Contaminated Sites: A Reference
 Guide

EPA/600/R-93/164 Bioremediation Using the Land Treatment Concept

EPA 600/4-79-020 Methods for Chemical Analysis of Water and Waste
 (1983)

EPA SW-846 Test Methods for Evaluation of Solid Waste (1986)
 (including all promulgated updates)

Department of the Air Force

Air Force Institute (AFI) 32-4002 Hazardous Material Emergency Planning
and Response Compliance

Air Force Institute (AFI) 32-7002 Environmental Information Management
System

Remediation Handbook for POL-Contaminated Sites (December 1993)

Technical Protocol for Implementing the Intrinsic Remediation with
Long-Term Monitoring Option for Natural Attenuation of Dissolved-Phase
Fuel Contamination in Groundwater, AFCEE (1994)

Test Plan and Technical Protocol for Bioslurping, AFCEE

Bioventing Performance and Cost Summary, AFCEE

Department of the Army

AR 200-1 Environmental Protection and Enhancement

AR 385-40	Accident Reporting and Records
ER 200-2-3	Environmental Compliance Policies
ER 385-1-92	Safety and Occupational Health Document Requirements for Hazardous, Toxic, and Radioactive Waste (HTRW) and Ordnance and Explosive Waste (OEW) Activities
ER 1110-1-263	Chemical Data Quality Management for Hazardous, Toxic, and Radioactive Waste Remedial Activities
ER 1180-1-6	Construction Quality Management
EP 200-2-3	Environmental Compliance Operations and Maintenance Procedures
EP 415-1-260	Resident Engineer's Management Guide
EP 415-1-261	Quality Assurance Representatives Guide
EP 415-1-266	Resident Engineer's Management Guide for HTRW Projects
EM 200-1-1	Validation of Analytical Chemistry Laboratories
EM 200-1-2	Technical Project Planning (TPP) Process
EM 200-1-3	Requirements for the Preparation of Sampling and Analysis Plans
EM 200-1-6	Chemical Quality Assurance for HTRW Projects
EM 385-1-1	Safety and Health Requirements Manual
EM 1110-1-1802	Geophysical Exploration for Engineering and Environmental Investigations
EM 1110-1-1906	Soil Sampling

EM 1110-1-4006
30 SEP 98

EM 1110-1-4000	Monitoring Well Design, Installation, and Documentation at Hazardous, Toxic and/or Radioactive Waste Sites
EM 1110-1-4001	Soil Vapor Extraction and Bioventing
EM 1110-1-4005	In-Situ Air Sparging
CEGS 01351	Safety, Health, and Emergency Response (HTRW/UST)
CEGS 01450	Chemical Data Quality Control
CEGS 02115	Underground Storage Tank Removal
CEGS 02120	Transportation and Disposal of Hazardous Materials
CEGS 02150	Piping; Off-Gas
CEGS 02160	Solidification/Stabilization of Contaminated Material
CWGS 02214	Soil Bentonite Slurry Trench Cutoff
CEGS 02260	Soil-Bentonite Slurry Trench for HTRW Projects
CEGS 02315	Excavation, Filling, and Backfilling for Buildings
CEGS 02316	Excavation, Filling, and Backfilling for Utilities Systems
CEGS 02377	Low-Permeability Clay Layer
CEGS 02522	Ground-water Monitoring Wells
CEGS 11215	Fans/Blowers/Pumps; Off-Gas
CEGS 11225	Downflow Liquid-Activated Carbon Adsorption Units
CEGS 11226	Vapor Phase Activated Carbon Adsorption Units
CEGS 11242	Chemical Feed Systems

CEGS 11250	Water Softeners, Cation Exchange (Sodium Cycle)
CEGS 11301	Air Stripping Systems
CEGS 11360	Plate and Frame Filter Press System
CEGS 11377	Advanced Oxidation Processes (AOP)
CEGS 11378	Thermal (Catalytic) Oxidation Unit
CEGS 11390	Prefabricated Biochemical Wastewater Treatment Plant
CEGS 11393	Filtration System
CEMP-RF Memorandum	Policy Guide for Underground Storage Tanks (USTs) on Formerly Used Defense Sites (FUDS), July 31, 1990
NIOSH/OSHA/ USCG/EPA	Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, October 1985

American National Standards Institute (ANSI)

ANSI Z-88.2 Respiratory Protection

American Petroleum Institute (API)

Publication 1628	A Guide to the Assessment and Remediation of Underground Petroleum Releases
Publication 2015	Cleaning Petroleum Storage Tanks
Publication 2217	Guidelines for Confined Space Work in the Petroleum Industry
Publication 2219	Safe Operation of Vacuum Trucks in Petroleum Service
Publication 4609	In-Situ Air Sparging: Evaluation of Petroleum Industry Sites and Considerations for Applicability, Design, and Operation

EM 1110-1-4006
30 SEP 98

Recommended Practice 1604	Removal and Disposal of Used Underground Petroleum Tanks
Recommended Practice 1631	Interior Lining of Underground Storage Tanks
Recommended Practice 2003	Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents

American Society for Testing and Materials (ASTM), *Annual Book of ASTM
Standards*, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959

D698	Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft ³ (600 kN-m/m ³))
D1556	Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method
D1557	Standard Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft ³ (2,700 kN-m/m ³))
D2113	Practice for Diamond Core Drilling for Site Investigation
D2167	Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method
D2325	Standard Test Method for Capillary-Moisture Relationships for Coarse- and Medium-Textured Soils by Porous-Plate Apparatus
D2487	Standard Test Method for Classification of Soils for Engineering Purposes
D2922	Standard Test Methods for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)
D3017	Standard Test Method for Water Content of Soil and

Rock in Place by Nuclear Methods (Shallow
Depth)

- D3152 Standard Test Method for Capillary-Moisture
 Relationships for Fine-Textured Soils by
 Pressure-Membrane Apparatus
- D4044 Standard Test Method (Field Procedures) for
 Instantaneous Change in Head (Slug Tests) for
 Determining Hydraulic Properties of Aquifers
- D4057 Standard Practice for Manual Sampling of Petroleum
 Products
- D4136 Standard Practice for Sampling Phytoplankton With
 Water-Sampling Bottles
- D4318 Standard Test Method for Liquid Limit, Plastic
 Limit, and Plasticity Index of Soils
- D4750 Standard Test Method for Determining Subsurface
 Liquid Levels in a Borehole or Monitoring Well
- D5088 Standard Practice for Decontamination of Field
 Equipment Used at Nonradioactive Waste Sites
- D5126 Standard Guide for Comparison of Field Methods for
 Determining Hydraulic Conductivity in the
 Vadose Zone
- D5314 Standard Guide for Soil Gas Monitoring in the
 Vadose Zone
- D5358 Standard Practice for Sampling With a Dipper or Pond
 Sampler
- D5495 Standard Practice for Sampling With a Composite
 Liquid Waste Sampler (COLIWASA)
- D5608 Standard Practice for the Decontamination of Field
 Equipment Used at Low-Level Radioactive Waste Sites

D5730	Standard Guide to Site Characterization for Environmental Purposes With Emphasis on Soil, Rock, Vadose Zone, and Groundwater
D5737	Standard Guide for Methods for Measuring Well Discharge
D5743	Standard Practice for Sampling Single or Multi- layered Liquids, With or Without Solids, in Drums or Similar Containers
D5781	Guide for the Use of Dual Wall Reverse-Circulation Drilling
D5782	Guide for the Use of Direct Air Rotary Drilling
D5783	Guide for the Use of Direct Rotary Drilling With Water-Based Drilling Fluid
D5784	Guide for the Use of Hollow-Stem Augers
D5831	Standard Test Method for Screening Fuels in Soils
D5872	Guide for the Use of Casing Advancement Drilling Methods
D5875	Guide for the Use of Cable-Tool Drilling and Sampling Methods
D5876	Guide for the Use of Direct Rotary Wireline Casing Advancement Drilling Methods
D6001	Standard Guide for Direct Push Water Sampling for Geoenvironmental Investigations
D6169	Standard Guide for Selection of Soil and Rock Sampling Devices Used With Drill Rigs for Environmental Investigations
D6286	Standard Guide for Selection of Drilling Methods for Environmental Site Characterization

E300	Standard Practice for Sampling Industrial Chemicals
E1599	Standard Guide for Corrective Action for Petroleum Releases
E1739	Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites
E1912	Standard Guide for Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases
PS78	Provisonal Standard Guide for Selecting Surface Geophysical Methods

National Fire Protection Association (NFPA), Batterymarch Park,
Quincy, MA 02269

30	Flammable and Combustible Liquids Code
70	National Electrical Code
70B	Electrical Equipment Maintenance
326	Procedure for Safe Entry of Underground Storage Tanks
327	Standard Procedure for Cleaning or Safeguarding Small Trucks and Containers

b. Related Publications.

Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C.A. 2001, et
seq.).

Natural Gas Pipeline Safety Act of 1968 (49 U.S.C.A. 1671, et seq.).

Solid Waste Disposal Act, Public Law 89-272, Title II, as added by
Public Law 94-580, *Resource Conservation and Recovery Act*, 42

EM 1110-1-4006
30 SEP 98

U.S.C. 6921 et seq., Oct. 21, 1976, as amended by the *Hazardous and Solid Waste Amendments* (HSWA) of 1984, Public Law 98-616, 42 U.S.C. 6901 et seq.

Heath, Ralph C. and Frank W. Trainer. *Introduction to Groundwater Hydrology*. National Water Well Association, 1988.

Johnson, P.C., C.C. Stanley, M. W. Kemblowski, D. L. Byers, and J. D. Colthart. "A Practical Approach to the Design, Operation, and Monitoring of In-Situ Soil-Venting Systems." *Groundwater Monitoring Review* 10(2) (1990): 159-177.

National Truck Carriers. *Cargo Tank Hazardous Material Regulations*

Rifai, H.S. "Modeling Natural Attenuation Using BioplumeII/III Model," Presentation at the U.S. Air Force Center for Excellence, Environmental Restoration Technology Transfer Symposium, November, 1994.